PATENT COOPERATION TREATY

PCT

REC'D 10 JAN 2005

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference TX/4-32852A FOR FURTHER		ACTION See Form PCT/IPEA/416						
International application No. PCT/EP2004/000354	International filing date	(day/month/year)	Priority date (day/month/year) 20.01.2003					
International Patent Classification (IPC) or national classification and IPC A61K9/14								
7.6								
,			<u> </u>					
Applicant								
NOVARTIS AG	•							
This report is the internal Authority under Article	This report is the International preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.							
2. This REPORT consists	s of a total of 6 sheets, including t	his cover sheet.						
3. This report is also acco	ompanied by ANNEXES, comprisi	ng:						
a. 🗆 sent to the app	licant and to the International Bure	eau) a total of sheets, as	s follows:					
and/or shee	sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	· ·	hich this Authority consid	ders contain an amendment that goes					
beyond the	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.							
b. (sent to the Inte	ernational Bureau only) a total of (i	ndicate type and number	of electronic carrier(s)) , containing a					
sequence listing to	g and/or tables related thereto, in 6 Sequence Listing (see Section 80	computer readable form of the computer of the Administrative In	only, as indicated in the Supplemental nstructions).					
,			•					
4. This report contains in	dications relating to the following i	tems:	•					
☑ Box No. I Basi	s of the opinion							
☐ Box No. II Prior	·	·						
☐ Box No. III Non-	establishment of opinion with rega	rd to novelty, inventive step and industrial applicability						
☑ Box No. IV Lack	of unity of invention							
⊠ Box No. V Reas appli	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
☐ Box No. VI Cert	ain documents cited							
☐ Box No. VII Cert	ain defects in the international app	lication						
☐ Box No. VIII Cert	☐ Box No. VIII Certain observations on the international application							
Data of the last of the last								
Date of submission of the dema	ind	Date of completion of this	report					
24.07.2004		07.01.2005						
Name and malling address of th		Authorized Officer						
preliminary examining authority European Patent			The state of the s					
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I		1 '						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/000354

	Box No. I	Basis of the report				
 With regard to the language, this report is based on the international application in the language in v filed, unless otherwise indicated under this item. 						
	which	eport is based on translations from the original language into the following language, is the language of a translation furnished for the purposes of: ernational search (under Rules 12.3 and 23.1(b)) olication of the international application (under Rule 12.4) ernational preliminary examination (under Rules 55.2 and/or 55.3)				
 With regard to the elements* of the international application, this report is based on (replacent have been furnished to the receiving Office in response to an invitation under Article 14 are report as "originally filed" and are not annexed to this report): 						
	Description	ı, Pagės				
	1-20	as originally filed				
	Claims, Nu	mbers				
	1-11	as originally filed				
	Drawings,	Sheets				
	1/6-6/6	as originally filed				
	☐ a seq	uence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing				
3.	☐ the☐ the☐ the☐ the☐ the☐	mendments have resulted in the cancellation of: e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): by table(s) related to sequence listing (specify):				
4.	had not b Suppleme th th th th th	report has been established as if (some of) the amendments annexed to this report and listed below een made, since they have been considered to go beyond the disclosure as filed, as indicated in the ental Box (Rule 70.2(c)). e description, pages e claims, Nos. e drawings, sheets/figs e sequence listing (specify): ny table(s) related to sequence listing (specify):				
	* If i	tem 4 applies, some or all of these sheets may be marked "superseded."				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/000354

		No. III Non-establishment of licability	f opi	nion with regard to novelty, inventive step and industrial			
1.	The obv	The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non-byious), or to be industrially applicable have not been examined in respect of:					
		the entire international application,					
	\boxtimes	claims Nos. 7-11					
		because:					
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):					
		the description, claims or drawings (indicate particular elements below) or said claims Nos. are so unclear that no meaningful opinion could be formed (specify):					
		I the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinior could be formed.					
	⊠	no international search report has been established for the said claims Nos. 7-11					
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Anne C of the Administrative Instructions in that:					
		the written form		has not been furnished			
				does not comply with the standard			
		the computer readable form		has not been furnished			
				does not comply with the standard			
		the tables related to the nucleon not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.			
		See separate sheet for further	detai	ls			

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/EP2004/000354

_	Box No. IV Lack of unity of invention										
1.		 In response to the invitation to restrict or pay additional fees, the applicant has: □ restricted the claims. □ paid additional fees. □ paid additional fees under protest. ☑ neither restricted nor paid additional fees. 									
2.		☐ This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.									
3.	Thi	This Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is									
		complied	with.								
	☐ not complied with for the following reasons:										
		see sepa	rate sheet								
4.	Co	nsequently	, this report has be	een estat	olished in r	espect of t	he follow	ing parts o	of the inte	mational app	olication:
		all parts.									
	×	☑ the parts relating to claims Nos. 1-6.									
			•			•					
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							ndustrial			
1.	Sta	tement		_		-					
No		ovelty (N)		Yes: No:	Claims Claims	1-6					
	Inventive step (IS)		Yes: No:	Claims Claims	1-6						
	Ind	ustrial app	licability (IA)	Yes: No:	Claims Claims	1-6					
2.	Cit	ations and	explanations (Rul	e 70.7):	•						

see separate sheet

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (SEPARATE SHEET)

International application No.

PCT/EP2004/000354

Re Item III.

Due to non-establishment of search report no opinion is provided for claims 7-11.

Re Item IV.

The separate inventions/groups of inventions are:

1-6

Process for modifying the crystal habbit of an acicular drug

7-10

Crystals of a specific aspect ratio

11

Crystal modifications of mycophenolic acid or sodium mycophenolate

They are not so linked as to form a single general inventive concept (Rule 13.1 PCT) for the following reasons:

Claim 1 relates to a process for the provision of crystalline compounds resulting in a specific length/width ratio. Moreover crystals and crystal modifications are claimed that possibly can be obtained by the given process. For the purpose of unity of invention it is required to define a single general inventive concept which represents a contribution over the prior art. Thus a special technical feature needs to be present in all subjectmatter claimed. In the present case it is considered that the technical problem can be formulated as how to provide a method for modifying the crystal habit of compounds. The solution provided by the present application is a process which is known from document WO9967236. Additionally it has to be stated that crystals obtained by this process are neither endowed with intrinsic properties due to their preparation procedure nor do these crystals have a specific activity. Crystals of a defined shape could also be obtained by a different process. Thus there is also a priori non-unity between group 1 and groups 2,3. Due to the fact that crystals of a specific aspect ratio are known from document WO9967236 there is no unifying feature to be identified between group 2 and group 3 of the application. Affitonally it has to be stated that crystal modifications of mycophenolic acid and sodium mycophenolate according to claim 11 are not characterized by their aspect ratio.

In view of the cited document of the prior art and the a priori objections mentioned above, possible contributions over the prior art diverge in three different directions and

are thus not so linked to form a single inventive concept which would support the unity of invention.

Re Item V.

- 1 The following document is referred to in this communication:
 - D1: WO 99/67236 A (SANOFI SYNTHELABO; FRANC BRUNO (FR); HOFF CHRISTIAN (FR); MONNIER OLI) 29 December 1999 (1999-12-29)
- 2 INDEPENDENT CLAIM 1
- 2.1 The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses already a process (compare page 15) which employ temperature oscillation in order to arrive at modified crystal forms.
- 3 DEPENDENT CLAIMS 2-6

Dependent claims 2-6 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

4 Clarity

Claim 1 is not acceptable in view of Art. 6 PCT, since the expression acicular drug is not suitable to clearly define the shape of the compound.